

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1982:53764 CAPLUS
 DN 96:53764
 ED Entered STN: 12 May 1984
 TI Weaving of synthetic fabrics
 PA Toyobo Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC D06M015-52
 CC 40-7 (Textiles)
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 56140181	A2	19811102	JP 1980-41088	19800328 <--
PRAI JP 1980-41088	A	19800328		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 56140181	IC	D06M015-52

AB Sulfonate-modified water-soluble polyurethanes are useful as sizes for polyester or nylon yarns for weaving fabrics by a water jet loom. Thus, 0.9 mol 18:90:10:60:12:10 adipic acid-diethylene glycol-ethylene glycol-isophthalic acid-sodium 5-sulfoisophthalate-terephthalic acid copolymer was polycondensed with 1.0 mol TDI and 0.2 mol diethylene glycol monomethyl ether to give a polyurethane (I) [80482-16-2]. Fabric defects were low in sizing poly(ethylene terephthalate) yarns with aqueous 8% I and weaving a fabric from the yarns with size content 2.5%, whereas fabric defects were high for yarns sized with compns. containing an acrylic polymer and poly(vinyl alc.).
 ST polyester yarn sizing polyurethane; nylon yarn sizing polyurethane;
 IT polyamide yarn sizing polyurethane; polyurethane size synthetic yarn
 Polyamide fibers, uses and miscellaneous
 Polyester fibers, uses and miscellaneous
 RL: USES (Uses)
 (sizes for, water-soluble polyurethanes as)
 IT Sizes
 (water-soluble polyurethanes, for nylon and polyester yarns)
 IT Urethane polymers, uses and miscellaneous
 RL: USES (Uses)
 (water-soluble, sizes, for polyester and nylon yarns)
 IT 80482-16-2
 RL: USES (Uses)
 (sizes, water-soluble, for polyester yarns)
 RN 80482-16-2

L4 ANSWER 2 OF 3 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN
 AN 1981-92036D [50] WPIX
 TI Weaving hydrophobic synthetic filament fabrics e.g. for tent cloths - coated with sizing agent of water dispersible polyurethane with sulphonic acid salt gp. to prevent oil staining etc..
 DC A23 A25 A87 F03 F06
 PA (TOYM) TOYOB0 KK
 CYC 1
 PI JP 56140181 A 19811102 (198150)* 4 <--
 PRAI JP 1980-41088 19800328
 IC D06M015-52
 AB JP 56140181 A UPAB: 19930915
 Hydrophobic synthetic filament yarns coated with 1.5-3 weight% of warp sizing agent consisting of water dispersible polyurethane with sulphonic acid

salt gp., are woven into fabric on water jet loom and the woven fabric is dried before rolling-up.

The hydrophobic synthetic filament yarn is made from aromatic polyester such as polyethylene terephthalate and aromatic polyamide such as nylon 6 and has a size of 150-300 denier. The density of weave is 50-80 per cent inch for total of warps and wefts. The polyurethane is obtd. by interaction of polyester diol with sulphinic acid salt gp. and polyisocyanate in the presence, if necessary, of chain extender.

The woven fabric is free from oil staining and irregularity of weave. Sticking of rolled fabric is prevented. The fabric is especially suitable for tent cloth, tarpaulin, foundation for belt, etc.

FS CPI
FA AB
MC CPI: A05-G01E; A12-G; F01-H06A

L4 ANSWER 3 OF 3 JAPIO (C) 2005 EPO on STN
AN 1981-140181 JAPIO
TI WEAVING OF HYDROPHOBIC SYNTHETIC FILAMENT FABRIC
IN YOSHIDA ICHIROU
PA TOYO BOSEKI KK
PI **JP 56140181 A 19811102 Showa**
AI JP 1980-41088 (JP5541088 Showa) 19800328
PRAI JP 1980-41088 19800328
SO INPADOC
IC ICM D06M015-52

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